

Recombinant Human Receptor-interacting serine,threonine-protein kinase 2(RIPK2)

Catalog No: #AP70718

Package Size: #AP70718-1 20ug #AP70718-2 100ug #AP70718-3 1mg

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Description

Product Name	Recombinant Human Receptor-interacting serine,threonine-protein kinase 2(RIPK2)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-540aaSequence Info:Full Length
Other Names	CARD-containing interleukin-1 beta-converting enzyme-associated kinase ;CARD-containing IL-1 beta ICE-kinaseRIP-like-interacting CLARP kinaseReceptor-interacting protein 2 ;RIP-2Tyrosine-protein kinase RIPK2 (EC:2.7.10.2)
Accession No.	O43353
Calculated MW	65.2 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MNGEAICSALPTIPYHKLADRLYLSRGASGTVSSARHADWRVQVAVKHLHIHTPLLDSEKQDVLREAELHKAR FSYILPILGICNEPEFLGIVTEYMPNGSLNELLHRKTEYPDVAWPLRFRILHEIALGVNYLHNMTPLLHDLKTQ NILLDNEFHVKIADFGLSKWRMMSLSQSRSSKSAPEGGTIYMPPENYEPGQKSRASIKHDIYSYAVITWEVLS RKQPFEDVTNPLQIMYSVSQGHRPVINEESLPYDIPHRARMISLIESGWAQNPDERPSFLKCLIELEPVLRTFEE ITFLEAVIQLKKTQLQSVSSAIHLCDKKMELSLNIPVNHGPQEESGSSQLHENSQSPETSRSLPAPQDNDLF SRKAQDCYFMKLHHCPGNHSDSTISGSQRAAFCDHKTTPCSSAIINPLSTAGNSERLQPGIAQQWQISKRE DIVNQMTACLNQSLDALLSRDLIMKEDYELVSTKPTRTSKVRQLLDTTDIQGEFAKIVVQKLKDNKQMGMLQP YPEILVVSRSPLNLLQNKSM
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Serine,threonine,tyrosine kinase that plays an essential role in modulation of innate and adaptive immune responses. Upon stimulation by bacterial peptidoglycans, NOD1 and NOD2 are activated, oligomerize and recruit RIPK2 through CARD-CARD domains. Contributes to the tyrosine phosphorylation of the guanine exchange factor ARHGEF2 through Src tyrosine kinase leading to NF-kappaB activation by NOD2. Once recruited, RIPK2 autophosphorylates and undergoes 'Lys-63'-linked polyubiquitination by E3 ubiquitin ligases XIAP, BIRC2 and BIRC3. The polyubiquitinated protein mediates the recruitment of MAP3K7,TAK1 to IKBKG,NO and induces 'Lys-63'-linked polyubiquitination of IKBKG,NO and subsequent activation of IKBKG,IKKB. In turn, NF-kappa-B is released from NF-kappa-B inhibitors and translocates into the nucleus where it activates the transcription of hundreds of genes involved in immune response, growth control, or protection against apoptosis. Plays also a role during engagement of the T-cell receptor (TCR) in promoting BCL10 phosphorylation and subsequent NF-kappa-B activation.

References

Kinase-selective enrichment enables quantitative phosphoproteomics of the kinome across the cell cycle. Daub H., Olsen J.V., Bairlein M., Gnad F., Oppermann F.S., Korner R., Greff Z., Keri G., Stemmann O., Mann M. Mol. Cell 31:438-448(2008) Research Topic: Immunology

Note: This product is for in vitro research use only and is not intended for use in humans or animals.